ATTACHMENT E – TRASH IMPLEMENTATION REQUIREMENTS

The requirements in this Attachment implement State Water Board Resolution 2015-0019, which amended the Water Quality Control Plan for Ocean Waters of California and the Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California to include trash-related requirements, referred to in this Order as the “Trash Provisions.” The Trash Provisions are statewide prohibitions and requirements implemented in part through NPDES stormwater permits. This Attachment includes the trash-related prohibitions and requirements implemented through this Order.

E1 TRASH DISCHARGE PROHIBITION

The Department shall comply with the prohibition of discharge of trash to surface waters of the State or deposition of trash where it may be discharged into surface waters of the State through compliance with the requirements of this Attachment.

E2 TRASH REQUIREMENTS COMPLIANCE DEADLINE

By December 2, 2030, the Department shall demonstrate full compliance with the requirements of this Attachment.

E3 TRASH PROVISIONS IMPLEMENTATION

Implementation of the Trash Provisions includes the following:

1. The Department shall install, operate, and maintain any combination of full capture systems, multi-benefit projects, other treatment controls, and/or institutional controls for all storm drains that capture runoff from Significant Trash Generating Areas. The Department shall develop and implement monitoring plans that demonstrate that such combinations achieve full capture system equivalency.

2. The Department shall coordinate efforts with municipal separate storm sewer system permittees subject to NPDES permits that implement the Trash Provisions, to install, operate, and maintain full capture systems, multi-benefit projects, other treatment controls, and/or institutional controls in Significant Trash Generating Areas and/or Priority Land Uses.

E4 SIGNIFICANT TRASH GENERATING AREAS

Significant Trash Generating Areas include all locations or facilities within the Department’s jurisdiction where trash accumulates in substantial amounts, such as:

1. Highway on-ramps and off-ramps in high density residential, commercial, and industrial land uses (as such land uses are defined under Priority Land Uses in Attachment B of this Order).

2. Rest areas and park-and-rides.
3. State highways in commercial and industrial land uses (as such land uses are defined under Priority Land Uses in Attachment B of this Order).

4. Mainline highway segments to be identified by the Department through pilot studies and/or surveys.

5. Areas identified by the State Water Board Executive Director in consultation with the appropriate Regional Board Executive Officer to be significant trash generating areas.

### E5 STATE WATER BOARD-CERTIFIED FULL CAPTURE SYSTEMS

The Department shall install certified full capture systems, as defined in the Trash Provisions, and as provided below:

1. The Department shall only install full capture systems that are certified by the State Water Board Executive Director. Certified full capture systems are listed on the State Water Board website (www.waterboards.ca.gov/water_issues/programs/stormwater/trash_implementation.html).

   Certified full capture systems trap all particles 5-millimeters or greater, and have a design treatment capacity that is either:

   a. Not less than the peak flow rate, Q, resulting from a one-year, one-hour, storm in the sub-drainage area, or

   b. Designed and sized to carry at least the same flows as the corresponding storm drain.

   The Rational equation is used to compute the peak flow rate: 
   
   \[ Q = C \cdot I \cdot A \]
   
   where \( Q \) = design flow rate (cubic feet per second); \( C \) = runoff coefficient (dimensionless); \( I \) = design rainfall intensity (inches per hour, as determined per the rainfall isohyetal map specific to each region, and \( A \) = sub-drainage area (acres).

2. Installation of full capture systems that are not certified by the State Water Board Executive Officer will not satisfy the Trash Implementation Requirements of this Order. To request certification of a full capture system, the Department shall submit a certification request letter that includes all relevant supporting documentation to the State Water Board Executive Director. The Executive Director will issue a written determination approving or denying the certification of the proposed full capture system and/or conditions of approval, including a schedule to review and reconsider the certification as applicable.

### E6 FULL CAPTURE SYSTEM EQUIVALENCY

If the Department is not implementing all full capture devices and is seeking equivalency to certified full capture devices, the Department shall demonstrate that any combination of certified full capture systems, multi-benefit projects, other treatment controls, and/or institutional controls achieves full capture equivalency. Full capture system equivalency is
a trash load reduction equivalent to the performance of full capture systems that are properly installed, operated, and maintained for all storm drains that capture runoff from Significant Trash Generating Areas. The full capture system equivalency is a Trash load reduction target that the Department quantifies by using an approach, and technically acceptable and defensible assumptions and methods for applying the approach, for review and consideration of approval by the State Water Board Executive Director.

E7 TRASH REDUCTION MILESTONES

The Department shall report its status towards compliance with the Trash Requirements of this Order, annually in the Trash Annual Monitoring Report described in section E12 of this Attachment, per the following Trash Reduction Milestones:

1. First Milestone. By December 2, 2025, the Department shall achieve full capture system equivalency at 35 percent or more of the 16,645 acres of Significant Trash Generating Areas identified in its April 12, 2019 Statewide Trash Implementation Plan submitted to the State Water Board.

2. Second Milestone. By December 2, 2028, the Department shall achieve full capture system equivalency at 70 percent or more of the acres identified as Significant Trash Generating Areas in its Trash Assessment Revised Map required in section E10.

3. Third Milestone. By December 2, 2030, the Department shall achieve full capture system equivalency at 100 percent of the acres identified as Significant Trash Generating Areas.

4. Until the Department completes its Trash Monitoring Plan as required in section E11, the Department shall implement its existing procedures and schedules to achieve compliance with the above milestones.

5. The Department may submit its own Trash Reduction Milestones for State Water Board Executive Director review and consideration of approval. If approved, the Department’s own Trash Reduction Milestones will supersede the above milestones. Without approval of subsequent Trash Reduction Milestones, the Department must comply with the milestones 1. through 3. above.

E8 ANNUAL TRASH REDUCTION ASSESSMENT

The Department shall provide an annual assessment of the amount of trash reduction achieved through implementation of full capture systems, multi-benefit projects, other treatment controls, and institutional controls. The annual trash reduction assessment shall be reported in the Trash Annual Report described in section E12, below.

E9 TRASH ASSESSMENT METHODOLOGY PLAN

The Trash Assessment Methodology Plan shall establish mechanisms to assess the Department’s entire transportation system regulated under this Order. The Trash
Assessment Methodology Plan shall include all requirements set forth in sections E9.1 through E9.6, below.

Within six months of the Effective Date of this Order, the Department shall submit a complete Trash Assessment Methodology Plan that includes all the following required elements, to the State Water Board Executive Director for review and consideration of approval. Upon approval, the Department shall thereafter implement the trash assessment methodology to demonstrate compliance with the requirements of this Attachment.

1. The Department shall develop a trash assessment methodology to demonstrate compliance with the requirements of this Attachment, and includes:
   a. Proposed implementation schedule for each fiscal year following the Effective Date of this Order until December 2, 2030,
   b. Identification and geographic information system mapping of Significant Trash Generating Areas (section E4),
   c. Determination of full capture equivalency (section E6),
   d. Compliance with interim trash reduction milestones (section E7), and
   e. Assessment of the amount of annual trash reduction (section E8).

2. The Department’s trash assessment methodology shall:
   a. Identify all locations or facilities within the Department’s jurisdiction that are located outside of its municipal separate storm sewer systems where trash accumulates in substantial amounts;
   b. Include visual assessment of all highway segments, highway on-ramps, and highway off-ramps within or adjacent to the jurisdiction of permitted municipal separate storm sewer systems to identify where trash accumulates in substantial amounts; and
   c. Include an assessment of all homeless encampments within the Department’s right-of-way.

3. The Department shall report all results of its trash assessment methodology in units of trash volume per acre per year.

**E10 TRASH ASSESSMENT REVISED MAP**

Within six months of receiving Executive Director approval of its Trash Assessment Methodology, the Department shall complete a statewide trash assessment and shall submit a revised map (as required in section E9.1.b) identifying the Department’s Significant Trash Generating Areas by geographic information system mapping of Significant Trash Generating Areas.
E11 TRASH MONITORING PLAN REQUIREMENTS

E11.1 Procedures and Schedules

Within six months of receiving Executive Director approval of its Trash Assessment Methodology, the Department shall develop and implement a Trash Monitoring Plan, for State Water Board Executive Director review and consideration of approval, that contains procedures and schedules demonstrating, at minimum, the following elements:

1. Implementation of the approved trash assessment methodology,
2. Compliance with interim milestones in this Order or approved by the State Water Board Executive Director,
3. The quantification and reporting methods for the actual annual trash reduction,
4. The effectiveness of implemented full capture systems, multi-benefit projects, other treatment controls, and/or institutional controls,
5. Compliance with full capture system equivalency,
6. Necessary maintenance of the full capture systems, multi-benefit projects, other treatment controls, and/or institutional controls. Maintenance frequency shall not be less than maintenance frequencies required for best management practices in Attachment C (Stormwater Management Plan) of this Order.
7. The compared quantity of trash discharged from the Department’s municipal separate storm sewer system from the previous year.
8. The quantity of trash in the receiving waters, compared from the previous year and by how much it has decreased.

E11.2 Maps, Trash Generation, Trash Controls, and Tracking

The Trash Monitoring Plan shall include the following elements:

1. Geographic information system-mapped locations and drainage areas of all Significant Trash Generating Areas;
2. Geographic information system-mapped locations of all implemented full capture systems, multi-benefit projects, other treatment controls, and/or institutional controls;
3. Estimated trash generation in all Significant Trash Generating Areas based upon trash assessments; and
4. Identification of each implemented full capture systems, multi-benefit projects, other treatment controls, and/or institutional controls.
E12 ANNUAL TRASH MONITORING REPORT REQUIREMENTS

By November 30 of each year, the Department shall submit to the State Water Board its Annual Trash Monitoring reports that addresses the reporting period of July 1 through June 30 of each year. The Annual Trash Monitoring Report shall be in accordance with the Department’s Trash Monitoring Plan and shall include the following:

1. Status of compliance with interim trash reduction milestones as required in section E7 of this Attachment;
2. Annual amount of trash reduction as required in section E8 of this Attachment;
3. Implementation summary of the approved assessment methodology as required in section E9 of this Attachment;
4. Effectiveness of implemented controls as required in section E11.1.4 of this Attachment;
5. Compliance with full capture system equivalency as required in section E11.1.5 of this Attachment;
6. Geographic information system-maps as required in section E11.2.1 of this Attachment;
7. Estimated trash generation in all remaining Significant Trash Generating Areas; and
8. Description of each of the implemented full capture systems, multi-benefit projects, other treatment controls, and/or institutional controls.
9. Proposed implementation schedule for the upcoming five fiscal years.